**ANP-C7971**

**STUDENT ID:AF0400992**

**NAME:** KAVALI SHIVA SHANKAR VARA PRASAD

**DATABASE DESIGN FOR**

**TRAVEL PLANNER**

**TRAVEL PLANNER SYSTEM**

The **Travel Planner Database** is designed to simplify the complex process of organizing and managing travel plans. It offers a systematic way to gather all the necessary data about destinations, accommodations, transport, activities, and budgeting in a centralized and user-friendly structure. The database aims to streamline travel logistics, provide clarity, and ensure that every aspect of a trip is accounted for, making it a powerful tool for both personal and professional use.

It offers flexibility, scalability, and the ability to track logistical details and financial data in a user-friendly format, making it ideal for individuals, families, groups, or travel agencies. With the added potential for customization and integration, this database is an invaluable tool for making travel planning more efficient, organized, and enjoyable.

Designing a database for the Travel Planner System includes different entities and attributes along with their relationships.

**Entities:**

* Destinations
* Accommodation
* Transportation
* Activities
* Budget
* Travellers

**Relationships**

1. Destinations to Accommodations: One-to-Many: A destination can have multiple accommodations. Relationship: A destination can host many accommodations, while each accommodation belongs to only one destination.
2. Destinations to Transportation: One-to-Many: A destination can offer multiple transportation options. Relationship: A destination can have various transportation modes, but each transport option is associated with only one destination.
3. Destinations to Activities: One-to-Many: A destination can have multiple activities. Multiple activities can take place at one destination, with each activity belonging to only one destination.
4. Budget: No direct relationship with other entities, as budgets can be created for any travel-related expense but don’t necessarily tie to a specific destination or traveler.
5. Travelers: No direct relationship with destinations, accommodations, transportation, or activities. However, it’s likely travelers will have associations with their chosen destinations, accommodations, and activities through a travel itinerary, which isn’t specified in your current attributes**.**

**Entities and Their Attributes:**

1. **Destinations**
   * destination\_id (PK)
   * name
   * country
   * description
2. **Accommodations**
   * accommodation\_id (PK)
   * destination\_id (FK)
   * name
   * type
   * check\_in
   * check\_out
   * cost
3. **Transportation**
   * transport\_id (PK)
   * destination\_id (FK)
   * type
   * company
   * departure\_date
   * arrival\_date
   * cost
4. **Activities**
   * activity\_id (PK)
   * destination\_id (FK)
   * name
   * date
   * cost
   * description
5. **Budget**
   * budget\_id (PK)
   * category
   * estimated\_cost
   * actual\_cost
   * notes
6. **Travelers**
   * traveler\_id (PK)
   * name
   * email
   * phone

**Entity-Relationship diagram for a**

**Travel planner system**

Can have multiple

Can have various

Can host many

Activities

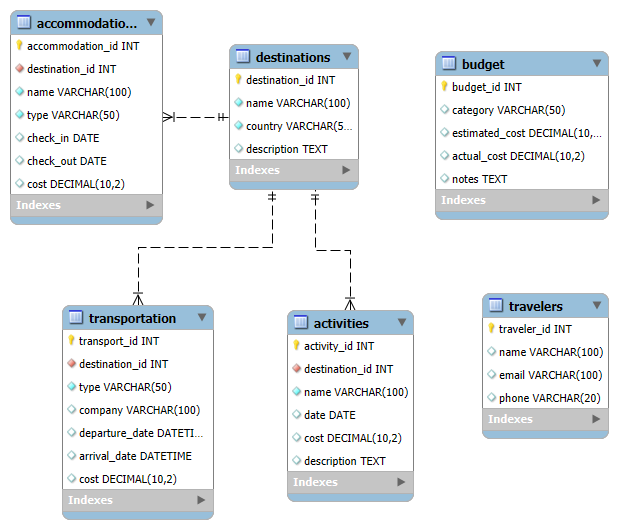
Transportation

Accommodations

Destinations

Travellers

Budget

****